BRUHAT BANGALORE MAHANAGARA PALIKE
BYTARAYANPURA DIVISION

Name of Work :Package 2 Consists of 3 Works of Rs.1100.00 Lakhs

1.Improvements to roads and drains at Kogilu and surrounding area in Ward No 05 Byatarayanapura sub division.
2.Improvements to roads and drains at Agrahara and surrounding area in Ward No 05 Byatarayanapura sub division.
3.Improvements to roads and drains at Hegdenagar and surrounding area in Ward No 06 Byatarayanapura sub division.

m/s. Bangra Developers & Projects Ltd.

TOTAL ABSTRACT

005-20-000074

FIRST & PART BILL

TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
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Total Abstract

BRUHAT BANGALORE MAHANAGARA PALIKE

BYATARAYANAPURA SUB DIVISION

TOTAL ABSTRACT

Name Of work : Package 2 Consists of 3 Works of Rs.1100.00 Lakhs

1 Improvements to roads and drains at Kogilu and surrounding area in Ward No 05 Byatarayanapura sub division

2 Improvements to roads and drains at Agrahara and surrounding area in Ward No 05 Byatarayanapura sub division

3 Improvements to roads and drains at Hegdenagar and surrounding area in Ward No 06 Byatarayanapura sub division

Job Code :

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :- First and Part Bill

BOQ Item No	Description	Unit	Qty	Rate	Amount	Remarks
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5=69.80					
E1	Kogilu and surrounding area page 1 to 9		898.60			
E2	Agrahara and surrounding area page 1 to 9		880.63			
E3	Hegdenagar and surrounding area page 1 to 14		1502.09			
	Present Qty		3281.32			
	Total		**3281.32**			
	BOQ qty		**8443.14**			
	Qty to be paid	**Cum**	**3281.32**	**234.00**	**7,67,829.00**	
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27, I.No.5.33 of PW, P&IWTD SR 2018-19)					
E1	Kogilu and surrounding area page 1 to 2		517.73			
E2	Agrahara and surrounding area page 1 to 2		425.40			
E3	Hegdenagar and surrounding area page 2 - 3		1052.88			
	Present Qty		1996.01			
	Total		**1996.01**			
	BOQ qty		**5845.36**			
	Qty to be paid	**Sqm**	**1996.01**	**112.00**	**2,23,553.00**	
3	Removing and resetting of footpath slab (P.No.270, I.No.37.56 of PW, P&IWTD SR 2018-19)					
E1	Kogilu and surrounding area page 3 to 5		1514.79			
E2	Agrahara and surrounding area page 3		94.17			
E3	Hegdenagar and surrounding area page - 3 - A		450.33			
	Present Qty		2059.29			
	Total		**2059.29**			
	BOQ qty		**753.30**			
	Quantity Reserved for Approval in 1st RA Bill		**1305.99**			
	Qty to be paid	**Sqm**	**753.30**	**210.00**	**1,58,193.00**	
4	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.27, I.No.5.31.1 of PW, P&IWTD SR 2018-19)					
E1	Kogilu and surrounding area		0.00			
E2	Agrahara and surrounding area		0.00			
E3	Hegdenagar and surrounding area		0.00			
	Present Qty		0.00			
	Total		**0.00**			
	BOQ qty		**3313.48**			
	Qty to be paid	**Sqm**	**0.00**	**819.00**	**0.00**	

Tejus Consultant

Assistant Engineer

Assistant Executive Engineer

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Total Abstract

BOQ Item No	Description	Unit		Qty	Rate	Amount	Remarks
5	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No 408 (P.No.254, I.No.34.1 of PW,P&IWTD S.R 2018-19)						
E1	Kogilu and surrounding area			0.00			
E2	Agrahara and surrounding area			0.00			
E3	Hegdenagar and surrounding area			0.00			
	Present Qty			0.00			
	Total			**0.00**			
	BOQ qty			**9.24**			
	Qty to be paid	**Cum**		**0.00**	**4516.00**	**0.00**	
6	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications. KBS 5.1.13. cement mortar 1:6(P.No.255, I.No.34.8.2 of PW, P&IWTD S.R 2018-19)						
E1	Kogilu and surrounding area			0.00			
E2	Agrahara and surrounding area			0.00			
E3	Hegdenagar and surrounding area			0.00			
	Present Qty			0.00			
	Total			**0.00**			
	BOQ qty			**9.72**			
	Qty to be paid	**Cum**		**0.00**	**4910.00**	**0.00**	
7	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM, curing complete as per specifications.Specification No. KBS 4.1, 4.2(P.No 255, I.No.34.11 of PW,P&IWTD S.R 2018-19)						
E1	Kogilu and surrounding area			0.00			
E2	Agrahara and surrounding area			0.00			
E3	Hegdenagar and surrounding area			0.00			
	Present Qty			0.00			
	Total			**0.00**			
	BOQ qty			**2.16**			
	Qty to be paid	**Cum**		**0.00**	**5645.00**	**0.00**	
8	34.17 Providing and laying in position plain/Reinforced cement cement concrete M20 for sub structure/Superstructure works, with cement @ 320 kgs, 20 mm & down size graded granite metal coarse aggregate @ 0.69 cum and fine aggregates @ 0.46 cum machine mixed with super plasticisers @ 3 lts confirming to IS 9103-2008,concrete laid in layers, well compacted and providing weep holes wherever necessary. with necessary scaffolding, form work etc., including cost of labour, HOM curing etc., complete. (P.No.257, I.No.34.17 of PW, P&IWTD SR 2018-19)						
E1	Kogilu and surrounding area			0.00			
E2	Agrahara and surrounding area			0.00			
E3	Hegdenagar and surrounding area			0.00			
	Present Qty			0.00			
	Total			**0.00**			
	BOQ qty			**24.64**			
	Qty to be paid	**Cum**		**0.00**	**5320.00**	**0.00**	

Tejus Consultant

Assistant Engineer

Assistant Executive Engineer
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BOQ Item No	Description	Unit		Qty	Rate	Amount	Remarks
9	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200.TMT Bars Fe 500 (P.No.229, I.No.28.8.2 of PW, P&IWTD SR 2018-19)						
E1	Kogilu and surrounding area			0.00			
E2	Agrahara and surrounding area			0.00			
E3	Hegdenagar and surrounding area			0.00			
	Present Qty			0.00			
	Total			1.97			
	BOQ qty			0.00	72897.00	0.00	
	Qty to be paid	**Tonne**					
10	Providing and laying 100mm thick pre-cast cover slabs over drains of width not exceeding 800 mm using M20 concrete reinforced with steel @ 6.00 kg/Sqm, slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, HOM of machineries, curing, lead and lift charges etc, Complete as per MORTH specifications No. 1500, 1700. (P.No.272, I.No.37.66 of PW,P&IWTD SR 2018-19)						
E1	Kogilu and surrounding area			0.00			
E2	Agrahara and surrounding area			0.00			
E3	Hegdenagar and surrounding area			0.00			
	Present Qty			0.00			
	Total			83.70			
	BOQ qty			0.00	1099.00	0.00	
	Qty to be paid	**m**					
11	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge						
E1	Kogilu and surrounding area			0.00			
E2	Agrahara and surrounding area			0.00			
E3	Hegdenagar and surrounding area			0.00			
	Present Qty			0.00			
	Total			88.80			
	BOQ qty			0.00	5201.00	0.00	
	Qty to be paid	**Sqm**					
12	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301with 4km lead= (I No-19.14,P No-143)						
E1	Kogilu and surrounding area Page 10-14			3098.75			
E2	Agrahara and surrounding area Page 10-15			3247.93			
E3	Hegdenagar and surrounding area page 15-22			4486.43			
	Present Qty			10833.11			
	Total			10833.11			
	BOQ qty			19892.00			
	Qty to be paid	**Cum**		10833.11	60.00	6,49,987.00	

Tejus Consultant

Assistant Engineer

Assistant Executive Engineer
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BOQ Item No	Description	Unit		Qty	Rate	Amount	Remarks
13	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)						
E1	Kogilu and surrounding area Page 15 to 19			2582.30			
E2	Agrahara and surrounding area Page 16 & 20			2314.37			
E3	Hegdenagar and surrounding area Page 23 to 29			3738.69			
	Present Qty			8635.36			
	Total			8635.36			
	BOQ qty			15960.30		1,49,30,537.00	
	Qty to be paid	**Cum**		**8635.36**	**1729.00**	**1,49,30,531.00**	
14	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kg\Sqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.158, I.No.21.6 of PW,P&IWTD SR 2018-19)						
E1	Kogilu and surrounding area			0.00			
E2	Agrahara and surrounding area			0.00			
E3	Hegdenagar and surrounding area			0.00			
	Present Qty			0.00			
	Total			**0.00**			
	BOQ qty			63841.30			
	Qty to be paid	**Sqm**		**0.00**	**29.00**	**0.00**	
15	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.158, I.No.21.2 of PW,P&IWTD SR 2018-19)						
E1	Kogilu and surrounding area			0.00			
E2	Agrahara and surrounding area			0.00			
E3	Hegdenagar and surrounding area			0.00			
	Present Qty			0.00			
	Total			**0.00**			
	BOQ qty			48492.70			
	Qty to be paid	**Sqm**		**0.00**	**6.00**	**0.00**	
16	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 Sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.158 I.No.21.7 of PW,P&IWTD SR of 2018-19)						
E1	Kogilu and surrounding area			0.00			
E2	Agrahara and surrounding area			0.00			
E3	Hegdenagar and surrounding area			0.00			
	Present Qty			0.00			
	Total			**0.00**			
	BOQ qty			140091.00			
	Qty to be paid	**Sqm**		**0.00**	**12.00**	**0.00**	

Tejus Consultant

Assistant Engineer

Assistant Executive Engineer
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BOQ Item No	Description	Unit		Qty	Rate	Amount	Remarks
17	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)						
E1	Kogilu and surrounding area			0.00			
E2	Agrahara and surrounding area			0.00			
E3	Hegdenagar and surrounding area			0.00			
	Present Qty			0.00			
	Total			**0.00**			
	BOQ qty			**1387.84**			
	Qty to be paid	**Cum**		**0.00**	**7284.00**	**0.00**	
18	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) (P.No.171, I.No.21.78.12 of PW,P&IWTD SR 2018-19) As per Issue rate dated: 03/01/2020						
E1	Kogilu and surrounding area			0.00			
E2	Agrahara and surrounding area			0.00			
E3	Hegdenagar and surrounding area			0.00			
	Present Qty			0.00			
	Total			**4493.36**			
	BOQ qty			**0.00**	**8613.76**	**0.00**	
	Qty to be paid	**Cum**					
19	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per Sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)						
E1	Kogilu and surrounding area			0.00			
E2	Agrahara and surrounding area			0.00			
E3	Hegdenagar and surrounding area			0.00			
	Present Qty			0.00			
	Total			**4370.50**			
	BOQ qty			**0.00**	**458.00**	**0.00**	
	Qty to be paid	**Sqm**					

Tejus Consultant

Assistant Engineer

Assistant Executive Engineer
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BOQ Item No	Description	Unit		Qty	Rate	Amount	Remarks
20	KSRRB M600-1. Construction of dry lean cement concrete mix CC1.5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub-base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. . MORTH V Revision Specification No. 601, IS 456 Table-5. with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver .((P.No.174, I.No.22.1.2 of PW,P&IWTD SR 2018-19)						
E1	Kogilu and surrounding area			0.00			
E2	Agrahara and surrounding area Page 21 to 22			235.34			
E3	Hegdenagar and surrounding area			0.00			
	Present Qty			235.34			
	Total			235.34			
	BOQ qty			369.82		8,77,818.00	
	Qty to be paid	**cum**		**235.34**	**3730.00**	**8,77,830.00**	
21	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. (P.No-182,I No-22.6.1)						
				0.00			
E1	Kogilu and surrounding area			0.00			
E2	Agrahara and surrounding area			0.00			
E3	Hegdenagar and surrounding area			0.00			
	Present Qty			0.00			
	Total			369.82			
	BOQ qty			0.00	5202.00	0.00	
	Qty to be paid	**Cum**					
					Total Amount (Rs.)	**1,76,07,923.00**	1,76,07,917.00
					Add 12% GST	**21,12,950.76**	21,12,950.76
					Grand Total Amount(Rs.)	**1,97,20,873.76**	1,97,20,867.76
							Round off 1,97,20,000.00

Tejus Consultant

Assistant Engineer

Assistant Executive Engineer
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